ABSTRACT OF THE DISCLOSURE

An implantable access port in accordance with one embodiment of the invention comprises a hollow port casing having a first channel, a second channel and a third channel. A self-sealing insert may be disposed within the third channel. The implantable access port may further comprise a graft having a first branch, a second branch, and a third branch, the first branch extending from the first channel and adapted to be anastomosed to a vessel at a first location, the second branch extending from the second channel and adapted to be anastomosed to a vessel in a second location, the third branch extending at least partially into the third channel, wherein the third branch is disposed between the self-sealing insert and the hollow port casing. Methods for performing medical procedures associated with the implantable access port are also disclosed.

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